

Assignment 1 Problem Statement

Deadline:

September 17th, 2015 11:59pm.

Question 1 :

Description:

The objective of this assignment is to get you to practice the development of a complete application on your own. The application will involve a person object on the back-end and front-end in the form of three screens: A JFrame or a window, a JPanel for creating a person profile and a JPanel for displaying the details of the person's profile (must be displayed in easy to read format). You must complete and submit this assignment by Thursday (September 17th) at 11:59pm.

The person profile will have the following attributes:

1. First name
2. Last name
- 3 Middle name
4. Date of birth (YYYY/MM/DD)
5. Street address
6. Town
7. Zip code
8. Occupation
9. Email address
10. Area code of Phone number
11. Phone number

Each field must be non-empty for a create operation is allowed to take place.

For a text field to be non-empty it must have at least one character.

Question 2 (No points):

Class diagram:

Definition:

The class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing and documenting different aspects of a system but also for constructing executable code of the software application.

The class diagram describes the attributes and operations of a class and also the constraints imposed on the system.

Draw a class diagram for a system to draw circles. Your diagram should have two classes: Circle and Point. You have to think of what attributes each of these classes should have and how these classes are related. The system should provide functionality to get the area and circumference of the Circle

Refer to this for information on class diagram :

http://www.tutorialspoint.com/uml/uml_class_diagram.htm

Submission Instruction :

1. Create a private repository with following format

LastName_FirstName_NUID

2. Inside the repo, create a folder "Assignment 1".

3. Inside have 1 folder called as "Q1" and put your Question 1 Java project over there. Have "Q2" for question 2.

Ask your weekday TA if you don't understand something.

We are not going to grade your Q2 this week but we want you to learn how to create object model. Hence I recommend you to look at the tutorial. From next week questions on object model will be graded.